

# ABSTRACT

5 A heat-resistant coated member comprises a substrate  
composed of a material selected from among molybdenum,  
tantalum, tungsten, zirconium, aluminum, titanium, carbon,  
and alloys, oxide ceramics, non-oxide ceramics and carbide  
materials thereof, which is covered with a layer composed  
10 primarily of a rare earth-containing oxide. In addition to  
heat resistance, the coated member has good corrosion  
resistance and non-reactivity, making it highly suitable as  
a part for sintering or heat-treating metals and ceramics in  
a vacuum, an inert atmosphere or a reducing atmosphere.

BEST AVAILABLE COPY